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APPLICATION NO. FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. FILING DATE 09/10/2001 09/623,954 Tudor N. Buican 1074-038 2037 **EXAMINER** 21034 7590 11/30/2004 **IPSOLON LLP** HANIG, RICHARD E 805 SW BROADWAY, #2740 ART UNIT PAPER NUMBER PORTLAND, OR 97205 2873

DATE MAILED: 11/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	pplicant(s)	
Office Action Summary		09/623,95	4	BUICAN, TUDOR N.	
		Examiner		· Art Unit	
_		Richard H		2873	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1)	Responsive to communication(s) filed on				
2a) <u></u> □	This action is FINAL . 2b)⊠ 3)⊠ This action is non-final.			
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
5)⊠ 6)⊠ 7)⊠ 8)□	Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 1-6,14 and 15 is/are allowed. Claim(s) 7-9,12 and 13 is/are rejected. Claim(s) 10 and 11 is/are objected to. Claim(s) are subject to restriction and/or election requirement.				
Application Papers					
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 10 September 2001 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
2) Notice 3) Infor	et(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/Ster No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:		0-152)

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DETAILED ACTION

- 1. If applicant desires priority under 35 U.S.C. 119(e) based upon a previously filed application, specific reference to the earlier filed application must be made in the instant application. For benefit claims under 35 U.S.C. 120, 121 or 365(c), the reference must include the relationship (i.e., continuation, divisional, or continuation-in-part) of the applications. This should appear as the first sentence of the specification following the title, preferably as a separate paragraph unless it appears in an application data sheet.
- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 7-9, 12, 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Munechika et al (4865450). For claim 7, Munechika et al, in col. 3, lines 33-46 describe the use of the Hinds type photoelastic modulators. They describe using a current feedback line to stabilize the voltage in order to produce the desired oscillation amplitude. They don't specifically say to control the frequency, but in col. 3 line 50, they describe adjusting the voltage to produce a desired optical phase retardation which implies that frequency is being changed. If the frequency is being change it would be an obvious design choice to control the frequency of the drive signal. Controlling the phase between the current and voltage is mentioned in line 46 and it is a design choice how that is done. The voltage is controlled and the phase between the

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voltage and the current are controlled so the frequency and the amplitude is controlled independently.

- 4. Claims 10, 11, are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. Claims 1-5, 6, 14, 15 are allowed.
- 6. The following is an examiner's statement of reasons for allowance: The system for controlling "n" photoelastic modulators toward having a common resonant frequency or generating error signals for controlling for phase differences in photoelastic modulator is not shown or suggested by the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Reference 5,298,973 in col.5, line 55 discloses has a driving circuit adjust the voltage.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard Hanig whose telephone number is 571-272-2329. The examiner can normally be reached on M-F: 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Epps can be reached on 571-272-2328. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Put 1/24/04

> Scott J. Subarman Primary Examiner